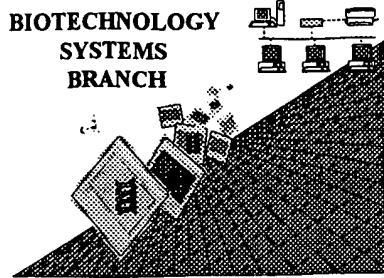


Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/002,631
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFT		
1 <input type="checkbox"/> Wrapped Nucleic <input type="checkbox"/> Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino <input type="checkbox"/> Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 <input type="checkbox"/> "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences <input type="checkbox"/> (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences <input type="checkbox"/> (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's <input type="checkbox"/> (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> <input type="checkbox"/> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) <input type="checkbox"/> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 <input type="checkbox"/> "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

*0250
0400*

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/002,631

Source: O1PE

Date Processed by STIC: 12/11/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§ 1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001
TIME: 12:13:46

Input Set : A:\772USAPP.txt
Output Set: N:\CRF3\12112001\I002631.raw

ppr 1-5

3 <110> APPLICANT: GRAFF, JONATHAN M.
4 MUENSTER, MATTHEW
5 ALLAN, DEBORAH
7 <120> TITLE OF INVENTION: METHODS TO IDENTIFY SIGNAL SEQUENCES
9 <130> FILE REFERENCE: UTSD:772US
OK-> 11 <140> CURRENT APPLICATION NUMBER: US/10/002,631
12 <141> CURRENT FILING DATE: 2001-10-31
14 <150> PRIOR APPLICATION NUMBER: 60/300,309
15 <151> PRIOR FILING DATE: 2001-06-21
19 <160> NUMBER OF SEQ ID NOS: 324
21 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

528 <210> SEQ ID NO: 15
 529 <211> LENGTH: 613
 530 <212> TYPE: DNA
 531 <213> ORGANISM: Homo sapiens
 533 <400> SEQUENCE: 15
 534 ggatcctggg ggacgtgctt cgggtgtcct ggtcgatatac cctagggtcg ctgctgccat 60
 535 catcattaag gtcggcccg tccaagctat ccagatcgga gggagactgt ggccgaggga 120
 536 gttccctgctc agttttggtc ttttttggtg cattggcttc ctcactttca ctctctgaga 180
 537 ttcctcact ccgaccctgc ttgttgcaccc ttgggttgga ggcttcctct actcgggcct 240
 538 tcttggctgt ctgcctggac ttctcagctt tgccatcaact gctggacgtg ctgaccctc 300
 539 caggggagggc ccggccccc gatctcagtt cttcccgggg cccaggggc tctttctcc 360
 540 gtccactcct cattgacata gagtcttat tctgtgtgt cttcattctt caggctgtgg 420
 541 agaccccaatt ctccctctgcc tgggcagctg aatacagaaa ctctctgtct ccaccccaag 480
 542 ttccccacag ctgtggctgt ggaagcagga tctccaagtt tccagtgtgg gcacccgtgaa 540
 E--> 543 ctgctggtag ctccggacgg ctggctggct ~~mcgaaccggg~~ attccgggct tccggccct 600 → See item 9
 544 tctgggggggg cgg 613
 820 <210> SEQ ID NO: 25
 821 <211> LENGTH: 678
 822 <212> TYPE: DNA
 823 <213> ORGANISM: Homo sapiens
 825 <400> SEQUENCE: 25
 826 ggatcctgca cttatccagg ttaagatcta aataggctgt aagtttcttg ttaaagtcat 60
 827 gaacaatgtt ggcaggatca ctatctgaa actctggac aggcacactg ataaaattcaa 120
 828 cttcttccttc ttcaaagatt ttaatattt cttcaattgt ctggtagaga gcagctgggg 180
 829 catctgcaga gggctcattt aagatgacat catcttgcgt gtactttatt ccacagtagt 240
 830 acacgtcattc tgggtgaagt gcaaaatatt tgcataagta tgctccctctt agaataacac 300
 831 ctgcaagcat aaatgttagt ccaaagcaca tgcaccaaca ccaggctttt ctttggccaa 360
 832 ctggtaccac atcatctggg tccttgcagt ccaccgcac ggcgtcgaaa gggatgtatgt 420
 833 ggcgcctcctc gcccgtcttg ggctcgtctt tcttggccctc cttctggcc agagcggaggt 480
 834 tgaacgtcac ctccaccatg ggcggccctg gggccccc ~~gaa~~ gggccqgc ~~ggcggctcg~~ 540 → See item 9
 E--> 835 ggcgcggctg cggctcccg ctgcgattgc agcctctacg ~~mcgggctcc~~ gggagccggc 600 → See item 9
 E--> 836 ~~mcgggctcc~~ tgaagaaggt cgggaagctt cgcggcggca gaagcggcta ctgcgggtcg 660 → See item 9
 On Error Summary Sheet
 12/11/01

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001
TIME: 12:13:46

Input Set : A:\772USAPP.txt
Output Set: N:\CRF3\12112001\I002631.raw

837 acgccggccg cgaaattc 678
 1498 <210> SEQ ID NO: 41
 1499 <211> LENGTH: 607
 1500 <212> TYPE: DNA
 1501 <213> ORGANISM: Homo sapiens
 1503 <400> SEQUENCE: 41
 1504 ggatccgtgg ccagaaaaaa aaaaatcggtt acctacaaaaa tctcttggc aacacttaag 60
 1505 ccatggaga gcccacatga atccaggctt actttcctt acaggttagat tccagaacaa 120
 1506 caacaaaaaa tgtaagacta caagaaatga tttatatga taactcccc attcaaaaac 180
 E--> 1507 ccagttctaa aggatttaa ntgactaatgc ntgattattt agtcatggaa aatgtctctc 240 → see item 9 on Env Summary Sheet
 1508 ataaaagtgc tcctaacaaa acatgatcta caataattta taaaatgtga agggttggg 300
 1509 tgtcagact gattggcga cgtcagggtt tttctcttaa ataaggata aaaaactatg 360
 1510 atatcatagt ctttcgactt tattttctga gataaaaaag tataggcata ggtgttttt 420
 1511 atagtcttct ttagtgcatac ctttagaata atctatcaaa tggcttctt catgtttcc 480
 1512 gattatcagc attcatcagt gttactgtca gccttgatta agtgggtgaa aatttcagag 540
 1513 aagaataagc aacttctgtg aaccttccc caatccctga gaatcatgtc gacgcggccg 600
 1514 cgaattc 607
 1761 <210> SEQ ID NO: 50
 1762 <211> LENGTH: 167
 1763 <212> TYPE: PRT
 1764 <213> ORGANISM: Homo sapiens
 1766 <400> SEQUENCE: 50
 1767 Asn Ser Arg Pro Arg Arg Gln Arg Val Tyr Thr Thr Leu Thr Arg Leu
 1768 1 5 10 15
 1770 Gln Val Tyr Ser Arg Arg Lys Ser Phe Leu Thr Lys Lys Leu Glu Leu
 1771 20 25 30
 1773 Gln Met Arg Trp Ser Leu Leu Asp Gln Ile Leu His Ile Asp Phe Ser
 1774 35 40 45
 1776 Thr Cys Pro Ser Ser Val Gln Gly Trp Leu Ala Ala Gln His Thr Pro
 1777 50 55 60
 1779 Pro Pro Leu Phe Ser Phe Leu Ala Val Tyr Ser Glu Asn Cys Leu Tyr
 1780 65 70 75 80
 1782 Cys Ile Phe Val Leu Trp Cys Asn Lys His Asp Gly Ala Phe Tyr Tyr
 1783 85 90 95
 E--> 1785 Ile Ile Pro Val Leu Leu Val Ile Leu Tyr Xaa Tyr Ser Val Ile Ala → item 9
 1786 100 105 110
 1788 Val Leu Gln Ser Gln Thr Ala Ala Lys Cys Lys Ile Ile Glu Met Tyr
 1789 115 120 125
 1791 Lys Asn Cys Ser Ile Phe Lys Ile Ser Lys Met Asp His Ile Ile Tyr
 1792 130 135 140
 1794 Leu Val Leu Gln Leu Thr Thr Leu Cys Ser Leu Trp Glu Gly Gly Ser
 1795 145 150 155 160
 1797 Pro Val Cys Leu Trp Gly Ser
 1798 165
 2174 <210> SEQ ID NO: 63
 2175 <211> LENGTH: 392
 2176 <212> TYPE: DNA
 2177 <213> ORGANISM: Homo sapiens
 2179 <400> SEQUENCE: 63 P.3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001
TIME: 12:13:46

Input Set : A:\772USAPP.txt
Output Set: N:\CRF3\12112001\I002631.raw

2180 ggatccgagt gctgatttgc acattgattc aggggagtaa ttggggagaa ggaaaaagg 60
 2181 ggggtggaaat gctggctcgcc cccctggcagg cacatgggtgc gcagcaggccc agctcagagg 120
 2182 ttgcctgaag agtcgtttt tcttgcgtcca gtccatctgc aggggcccgt ttgcgtctgc 180
 2183 gtttctggc ggcctcttcttggccatgg ccaggagat gttgaagtctt agatgggg 240
E--> 2184 cggaggagga ggtagacgag ggccgtgtgg agtcctgttt tggggggctg tcttggmaat 300 → item 9
 2185 tcagctccctc gctgggtgtca ctggaggcgg attcaccag ggctggcctg gggctctcca 360
 2186 aggctgcctc tggtcgacgc ggccgcgaat tc 392
 2189 <210> SEQ ID NO: 64
 2190 <211> LENGTH: 127
 2191 <212> TYPE: PRT
 2192 <213> ORGANISM: Homo sapiens
 2194 <400> SEQUENCE: 64
 2195 Ile Arg Gly Arg Val Asp Gln Arg Gln Pro Trp Arg Ala Pro Gly Gln
 2196 1 5 10 15
E--> 2198 Pro Trp Asp Pro Pro Pro Val Thr Pro Ala Arg Ser Ile Xaa Lys Thr 30 → item 9
 2199 20 25 30
 2201 Ala Pro Gln Asn Arg Thr Pro Gln Arg Pro Arg Leu Pro Pro Pro Pro
 2202 35 40 45
 2204 Thr Pro Ser Thr Ser Thr Ser Pro Trp Pro Trp Pro Lys Arg Gly Pro
 2205 50 55 60
 2207 Thr Arg Asn Ala Ala Ala Asn Gly Pro Leu Gln Met Asp Trp Ser Lys
 2208 65 70 75 80
 2210 Lys Asn Glu Leu Phe Arg Gln Pro Leu Ser Cys Pro Ala Ala Thr His
 2211 85 90 95
 2213 Val Thr Gly Arg Ala Glu Pro Ala Phe His Pro Thr Phe Phe Leu Leu
 2214 100 105 110
 2216 Pro Asn Tyr Ser Pro Glu Ser Met Tyr Lys Ser Ala Leu Gly Ser
 2217 115 120 125
 2475 <210> SEQ ID NO: 73
 2476 <211> LENGTH: 747
 2477 <212> TYPE: DNA
 2478 <213> ORGANISM: Homo sapiens
 2480 <400> SEQUENCE: 73
 2481 ggatcctgtt gcttcaaaag tcaattttat agaatccaa ggtgtctgtt ctttggatat 60
 2482 gagtcggaaa tgaggaggat ttcttggaga aacttctggc gcaggaagat accagttttt 120
E--> 2483 cctgatcaga aagtgcacat ggaagatacc aaggaaaacc acaaagagggt gcattctcct 180 → item 9
 2484 cacagtgcgc tcggatacta tcattgtatc cagaatgtg aggggttatg tgagaaattc 240
 2485 cagtataatc aaacccatttgc atccatattc cagagtcccg tttaactgca tttccttcca 300
 2486 agtcatggaa tggtcttagtc atatgttgc gaaacactct ctttggcttc ggatttagcag 360
 2487 gattggagct atatggaaaa aatgttccac tgcaaacaag gaggaatgtt attgcacata 420
 2488 ccaaagttaa agtttagcatg gtttttttgc tgcttgc aaggtatgtt aagttatca 480
 2489 tgtaataaaa tcttttcgca agatgtatgtt taagtattat tttggctaca gttgcagttc 540
 2490 catacagaca aacggagacc atagaatgtt ttataccatg agagagactg tccaataaga 600
 2491 gagatgaaca ctgcataat gagaacggta acaaggctgt tgaaccagct gatcaaagt 660
 2492 atgccaagtc cacacaagaa gtccttcttg tagttaccatg tcttattgtttt gggctgc 720
 2493 aattttttgc ccaggtacaa aacaaca 747
 2496 <210> SEQ ID NO: 74
 2497 <211> LENGTH: 238
 2498 <212> TYPE: PRT

P.4

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001
TIME: 12:13:46

Input Set : A:\772USAPP.txt
Output Set: N:\CRF3\12112001\I002631.raw

2499 <213> ORGANISM: Homo sapiens
 2501 <400> SEQUENCE: 74
 2502 Cys Cys Phe Val Pro Gly Gln Lys Ile Phe Ala Ala Gln Thr Asp Trp
 2503 1 5 10 15
 2505 Leu Gln Glu Gly Leu Leu Val Trp Thr Trp His His Phe Asp Gln Leu
 2506 20 25 30
 2508 Val His Pro Cys Tyr Arg Ser His Tyr Ser Ser Val His Leu Ser Tyr
 2509 35 40 45
 2511 Trp Thr Val Ser Leu Met Val Pro Leu Leu Trp Ser Pro Phe Val Cys
 2512 50 55 60
 2514 Met Glu Leu Gln Leu Pro Lys Tyr Leu Tyr Ile Leu Leu Arg Lys Asp
 2515 65 70 75 80
 2517 Phe Ile Thr Leu Thr Ser Ser Thr Leu Pro Arg Ala Gln Lys Lys Pro
 2518 85 90 95
 2520 Cys Leu Leu Trp Tyr Val Gln Leu His Ser Ser Leu Phe Ala Val Glu
 2521 100 105 110
 2523 His Phe Phe His Ile Ala Pro Ile Leu Leu Ile Arg Ser Gln Arg Glu
 2524 115 120 125
 2526 Cys Phe Phe Ser Ile Leu Glu His Ser Met Thr Trp Lys Glu Met Gln
 2527 130 135 140
 2529 Leu Asn Gly Thr Leu Glu Tyr Gly Ser Met Gly Leu Ile Ile Leu Glu
 2530 145 150 155 160
 2532 Phe Leu Thr Pro Leu Thr Phe Leu Arg Ser Met Ile Val Ser Glu Leu
 2533 165 170 175
 2535 Thr Val Arg Arg Met His Leu Phe Val Val Phe Leu Gly Ile Phe Xaa
 2536 180 185 190
 2538 Val His Phe Leu Ile Arg Lys Asn Trp Tyr Leu Pro Ala Pro Glu Val
 2539 195 200 205
 2541 Ser Pro Arg Asn Pro Pro His Phe Arg Leu Ile Ser Lys Glu Gln Thr
 2542 210 215 220
 2544 Pro Trp Asp Ser Ile Lys Leu Thr Phe Glu Ala Thr Gly Ser
 2545 225 230 235
 3047 <210> SEQ ID NO: 89
 3048 <211> LENGTH: 558
 3049 <212> TYPE: DNA
 3050 <213> ORGANISM: Homo sapiens
 3052 <400> SEQUENCE: 89
 3053 ggatccagac ccacgaggga catatgaatt ttcattcagc agcttgatgg tgctggta
 3054 gctctgtgctg tccaggttct ccgacaactt tctcttcagg tcatcccaat ataagcgac
 3055 tgctgcaggg aagtcccttc ctggctcctc cctcaactgga gactcgggtc ctgccagtc
 3056 ctcacactca gttttgggtt ctaccccttt acaatagccc aagtagccaa tcataaatt
 3057 aatcaagaaa aagacgatca cagcaatagt cccatagcag atacttccac tacaccctt
 3058 tggnnttggt acattggct ttgtgttatt gtcagcattt tcttcttcat ctacagcaa
 3059 ttcatcttc acatgactgt tatcgccatc tacttgcgga gccaggctga accgggtat
 3060 tgacaatggt tctccaccaa acaagttaga gaatgctgat ctatgttgcat ccatttc
 3061 gaactgccac acagaagaca ctagcgctc ctatgtcccg agccgcaccc gatatcccg
 3062 cgacgcggcc gcgaaattc
 4718 <210> SEQ ID NO: 138
 4719 <211> LENGTH: 358

p. 5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/002.631

DATE: 12/11/2001

TIME: 12:13:47

Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

4720 <212> TYPE: DNA
 4721 <213> ORGANISM: Mus musculus
 4723 <400> SEQUENCE: 138
 E--> 4724 gaattcgcgg ccgcgttngc cgccgcggcg gcggccgagc tggtgatcg ctgggtcata 60
 4725 ttcggccctct tgctccctggc tattttggcc ttttgctggc tctacgttgc gaagtaccag 120
 4726 agtcagcggg aaagtggat cgtctccact gtgacagcca ttttttact ggctgttgc 180
 4727 ctgatcacat cagcactgct gcccgtggat atattttgg ttcttacat gaaaaatcaa 240
 4728 aatggcacat tcaaggactg ggctgacgcc aatgtcaccg tacagattga gaataccgtt 300
 4729 ctgtatggct actatactt gtattctgtc attctttctt gtgtgttctt ctggatcc 358
 8037 <210> SEQ ID NO: 254
 8038 <211> LENGTH: 209
 8039 <212> TYPE: PRT
 8040 <213> ORGANISM: Mus musculus
 8042 <400> SEQUENCE: 254
 8043 Val Ser Ser Val Asp Leu His Ala Pro Thr Ser Ile Ser Phe Ile Glu
 8044 1 5 10 15
 E--> 8046 Glu Tyr Thr Ser Ser Asp Phe Tyr Leu Gly Xaa Phe Leu Arg Val Arg
 8047 20 25 30
 8049 Val Val Thr Gly Arg Arg Ser Gly Cys Asp Lys Gly Asp Cys Trp Ser
 8050 35 40 45
 8052 Ser Ser Tyr Ser Cys Pro Lys Lys Leu Met Thr Thr Met Cys His Ile
 8053 50 55 60
 8055 Thr Leu Gly Phe Ser Glu Thr Phe Glu Val Asn Ser Asn Leu Pro Asn
 8056 65 70 75 80
 8058 Arg Leu Trp Ile Arg Asp Phe Lys Ser Val Ser Tyr Tyr Phe Cys Val
 8059 85 90 95
 8061 Leu Met Ser Phe Gln Cys Ile Phe Cys Glu Leu Pro Leu Gln Ser Thr
 8062 100 105 110
 8064 Val Thr Glu Tyr Leu Arg Asp Arg Val Pro Gln Ser Thr Leu Val Thr
 8065 115 120 125
 8067 Glu Tyr Pro Arg Asp Ser Thr Ser Val Thr Glu Tyr Pro Ser Asp Arg
 8068 130 135 140
 8070 Pro Gln Val Thr Leu Gln Val Thr Leu Val Thr Leu Leu Cys Tyr Leu
 8071 145 150 155 160
 8073 Arg Asn Ser Ser Val Leu His Val Phe Lys Val Lys Asn Cys Ser Arg
 8074 165 170 175
 8076 Asn Leu His Asn Asp Leu His Arg Leu Ala Pro Ile Phe Val Leu Phe
 8077 180 185 190
 8079 Leu Cys Cys Leu Phe Glu Arg Ser Phe Leu Leu His Arg Gln Ser Gly
 8080 195 200 205
 8082 Ser

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001
TIME: 12:13:49

Input Set : A:\772USAPP.txt
Output Set: N:\CRF3\12112001\I002631.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:543 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
L:652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/002,631

DATE: 12/11/2001

TIME: 12:13:49

Input Set : A:\772USAPP.txt

Output Set: N:\CRF3\12112001\I002631.raw

L:835 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:25
M:340 Repeated in SeqNo=25
L:854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:915 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1507 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:41
L:1785 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:50
L:2184 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:63
L:2198 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64
L:2483 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:73
L:2535 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74
L:3058 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:89
M:340 Repeated in SeqNo=89
L:4724 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:138
L:8046 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:254